

refer to a planning sheet, to thereby achieve smooth multiplex recording and editing of musical information.

What is (claimed) is:

1. A recording device for recording musical information of a music piece onto a recording medium having address information previously recorded thereon said device comprising:

tempo designation means for designating a tempo of a music piece to be recorded;

meter designation means for designating meter of said music piece;

rhythm generation means for generating, in light or sound, a rhythm corresponding to the tempo and meter designated by said tempo and meter designation means;

start timing instruction means for instructing timing to start performance of said music piece;

input means for inputting musical information of said music piece;

music piece recording means for recording, onto the recording medium, the musical information of said music piece input by said input means;

start address retrieval means for retrieving, as a start address of said music piece, the address information read out from the recording medium when the timing to start performance of said music piece is instructed by said instruction means, and

tempo, meter and start address recording means for recording, onto a predetermined recording area of the recording medium, information indicative of the tempo and meter designated by said tempo and meter designation means and the start address retrieved by said retrieval means.

2. A reproducing device for reproducing recorded information from a recording medium having musical information of a music piece recorded thereon along with associated address information and also having other information indicative of a tempo, meter and start address of the music piece recorded on a predetermined recording area thereof, said device comprising:

reading means for, prior to reproduction of the music piece, reading the information indicative of the tempo, meter and start address from the predetermined recording area of the recording medium;

reproduction means for reproducing the musical information of the music piece along with the associated address information;

measure number calculation means for calculating a measure number  $n$  being currently reproduced, by performing an arithmetic operation of

$$n = \text{INT}\{(Ta - Ts)/N \cdot t\} + 1$$

where  $T_s$  represents in seconds the start address of the music piece read by said reading means,  $T_a$  represents in seconds an address being currently reproduced,  $N$  represents the meter read by said reading means,  $t$  represents in seconds the tempo read by said reading means and  $\text{INT}\{(Ta - Ts)/N \cdot t\}$  represents an integer part of  $(Ta - Ts)/N \cdot t$ , and

measure number display means for displaying the measure number calculated by said calculation means.

3. A reproducing device for reproducing recorded information from a recording medium having musical information of a music piece recorded thereon along with associated address information and also having other information indicative of a tempo, meter and start address of the music

piece recorded on a predetermined recording area thereof,  
said device comprising:

reading means for, prior to reproduction of the musical  
information of the music piece, reading the information  
indicative of the tempo, meter and start address of the  
music piece from the predetermined recording area;

reproduction means for reproducing the musical informa-  
tion of the music piece along with the associated  
address information;

measure number designation means for designating a  
measure number in the music piece:

measure start address calculation means for calculating a  
start address  $T_a$  of the measure number designated by  
said measure designation means, by performing an  
arithmetic operation of

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$$T_a = T_s + (n-1) \cdot N \cdot t$$

where  $T_s$  represents in seconds the start address of the music piece read by said reading means,  $n$  represents the measure number designated by said designation means,  $N$  represents the meter read by said reading means and  $t$  represents in seconds the tempo read by said reading means, and

measure start address search means for searching, on the recording medium, for the measure start address calculated by said calculation means so that reproduction of the music piece is started at the calculated measure start address.

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4. A reproducing device for reproducing recorded information from a recording medium having musical information of a music piece recorded thereon along with associated address information and also having other information indicative of a tempo, meter and start address of the music piece recorded on a predetermined recording area thereof, said device comprising:

reading means for, prior to reproduction of the music piece, reading the information indicative of the tempo, meter and start address from the predetermined recording area of the recording medium;

reproducing means for reproducing the musical information of the music piece along with the associated address information;

measure number calculation means for calculating a measure number corresponding to the address information being currently reproduced in accordance with the address information along with which the music information is currently reproduced and also with the start address, tempo, and meter read by said reading means; and

measure number display means for displaying the measure number calculated by said calculation means.

5. A reproducing device for reproducing recorded information from a recording medium having musical information of a music piece recorded thereon along with associated address information and also having other information indicative of a tempo, meter and start address of the music piece recorded on a predetermined recording area thereof, said device comprising:

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reading means for, prior to reproduction of the musical information of the music piece, reading the information indicative of the tempo, meter and start address of the music piece from the predetermined recording area;

measure number designation means for designating a measure number in the music piece;

measure start address calculation means for calculating a start address of the measure number designated by said measure number designation means in accordance with the measure number designated by said measure number designation means and also with the start address, tempo and meter of the music piece read by said reading means;

measure start address search means for searching, on the recording medium, for the measure start address calculated by said calculation means; and

reproduction means for reproducing the music information of the music piece, starting from the measure start address detected by said measure start address search means.

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